Ultramicroscopy 26 (1988) 437–439
North-Holland, Amsterdam

AUTHOR INDEX TO VOLUME 26

Anstis, G.R., Z. Liu and M. Lake, Investigation of amorphous materials by electron diffraction – the effects of multiple scattering 26 (1988) 65
Armigliato, A., see Garulli 26 (1988) 295

Barnard, D.P., see Turner 26 (1988) 337
Bennett, J.C., see Corbett 26 (1988) 43
Bird, D.M. and R. James, Measurement of phase invariants in three-beam diffraction 26 (1988) 31
Bluemke, D.A., B. Carragher and R. Josephs, The reconstruction of helical particles with variable pitch 26 (1988) 255
Böhringer, K., see Jousten 26 (1988) 301
Bonevich, J.E. and L.D. Marks, Contrast transfer theory for non-linear imaging 26 (1988) 313
Boothroyd, C.B. and W.M. Stobbs, The contribution of inelastically scattered electrons to high resolution images of (Al, Ga)As/GaAs heterostructures 26 (1988) 361
Börret, R., see Jousten 26 (1988) 301
Boswell, F.W., see Corbett 26 (1988) 43

Cabanillas, E.D. and R. Versaci, Preparation of narrow amorphous ribbon specimens for transmission electron microscopy 26 (1988) 335
Carragher, B., see Bluemke 26 (1988) 255
Chiu, W., see Frank 26 (1988) 345
Christenson, K.K. and J.A. Eades, Skew thoughts on parallelism 26 (1988) 113
Chu, S.N.G., see Twigg 26 (1988) 51
Cohen, P.I. and P.R. Pukite, Determination of surface step distributions on Ge using RHEED 26 (1988) 143
Corbett, J.M., L.G. Hiltz, F.W. Boswell, J.C. Bennett and A. Prodan, Determination of the symmetry of charge-density-wave modulations in $TaTe_4$ by HREM 26 (1988) 43
Cowley, J.M., see Peng 26 (1988) 161
Cowley, J.M., see Peng 26 (1988) 189
Cowley, J.M., see Pan 26 (1988) 205
Cowley, J.M., see Peng 26 (1988) 227
Cowley, J.M., see Wang 26 (1988) 233
Crewe, A.V., see Shao 26 (1988) 385

De Blasi, C., M. Di Giulio and D. Manno, Numerical evaluation of lattice parameters from high-order Laue zone lines in convergent-beam electron diffraction disks 26 (1988) 377
Degn, L., see Frank 26 (1988) 345
Di Giulio, M., see De Blasi 26 (1988) 377
Dorignac, D. and Z.G. Li, A very simple method for simulating useful high resolution diffraction patterns 26 (1988) 249

Eades, J.A., see Christenson 26 (1988) 113
Eaglesham, D.J., see Humphreys 26 (1988) 13
Echenique, P.M., see Rivacoba 26 (1988) 389

Faisal, A.Q.D., see Venables 26 (1988) 169
Fan, G.Y., Quantitative comparison of convergent-beam electron diffraction (CBED) patterns 26 (1988) 71
Finetti, M., see Garulli 26 (1988) 295
Frank, J., W. Chiu and L. Degn, The characterization of structural variations within a crystal field 26 (1988) 345
Fraser, H.L., see Humphreys 26 (1988) 13

Garulli, A., A. Armigliato and M. Finetti, A preparation technique for TEM cross-sections of test structures with reduced feature size 26 (1988) 295
Gibson, J.M., see Treacy 26 (1988) 133
Gjønnes, J., see Taftø 26 (1988) 97
Glanvill, S.R., see Rossouw 26 (1988) 87

Hamichi, M., see Venables 26 (1988) 169
Hardiman, M., see Venables 26 (1988) 169
Hasegawa, H., see Ikarashi 26 (1988) 195
Hawkes, P.W., Special issues, edited volumes and much else 26 (1988) 327
Hiltz, L.G., see Corbett 26 (1988) 43
Høier, R., J.-M. Zuo, K. Marthinsen and J.C.H. Spence, Determination of structure factor phase invariants from non-systematic many-beam effects in convergent-beam patterns 26 (1988) 25
Humphreys, C.J., D.J. Eaglesham, D.M. Maher and H.L. Fraser, CBED and CBIM from semiconductors and superconductors 26 (1988) 13

Ikarashi, N., K. Kobayashi, H. Koike, H. Hasegawa and K. Yagi, Profile and plan-view imaging of reconstructed surface structures of gold 26 (1988) 195
Isaacson, M.S., see Johnson 26 (1988) 271

James, R., see Bird 26 (1988) 31

Johnson, H.F. and M.S. Isaacson, An efficient analytical method for calculating the angular and energy distribution of electrons which have undergone plural scattering in amorphous materials 26 (1988) 271
Josephs, R., see Bluemke 26 (1988) 255
Jousten, K., K. Böhringer, R. Börret and S. Kalbitzer, Growth and current characteristics of stable protrusions on tungsten field ion emitters 26 (1988) 301

Kalbitzer, S., see Jousten 26 (1988) 301
Kariotis, R., see Venables 26 (1988) 169
Kestel, B.J. and M.D. Wiggins, Electrolyte for jet-thinning martensitic steel containing precipitates 26 (1988) 405
Kim, Y., see Spence 26 (1988) 103
Kobayashi, K., see Ikarashi 26 (1988) 195
Koike, H., see Ikarashi 26 (1988) 195
Kuwabara, M., see Spence 26 (1988) 103

Lake, M., see Anstis 26 (1988) 65
Leapman, R.D. and C.R. Swyt, Separation of overlapping core edges in electron energy loss spectra by multiple-least-squares fitting 26 (1988) 393
Lehmpfuhl, G. and Y. Uchida, Electron diffraction conditions for surface imaging 26 (1988) 177
Li, Z.G., see Dorignac 26 (1988) 249
Liliental-Weber, Z., E.R. Weber, L. Parechanian-Allen and J. Washburn, On the use of convergent-beam electron diffraction for identification of antiphase boundaries in GaAs grown on Si 26 (1988) 59
Liu, Z., see Anstis 26 (1988) 65
Lu, P., see Wang 26 (1988) 217

Maher, D.M., see Humphreys 26 (1988) 13
Manno, D., see De Blasi 26 (1988) 377
Marks, L.D., see Bonevich 26 (1988) 313
Marthinsen, K., see Høier 26 (1988) 25
Matuszek, G., see Turner 26 (1988) 337
McCormick, T.C., see Smyth 26 (1988) 77
Mihama, K., see Tanaka 26 (1988) 37

Nir, E., Editor, Abstracts of papers presented at the 22nd Scientific Meeting of The Israel Society of Electron Microscopy, Tel-Aviv, June 1988 26 (1988) 423

Pan, M. and J.M. Cowley, Computer-simulated electron microdiffraction patterns from MgO crystal surfaces 26 (1988) 205
Parechanian-Allen, L., see Liliental-Weber 26 (1988) 59
Peng, L.-M. and J.M. Cowley, Surface resonance effects and beam convergence in REM 26 (1988) 161
Peng, L.-M., J.M. Cowley and Nan Yao, The observation of surface resonance effects in RHEED patterns 26 (1988) 189
Peng, L.-M. and J.M. Cowley, Diffuse diffraction spots in RHEED patterns 26 (1988) 227
Pennycook, S.J., Delocalization corrections for electron channeling analysis 26 (1988) 239
Potter, D.I., see Rossouw 26 (1988) 87
Prodan, A., see Corbett 26 (1988) 43
Pukite, P.R., see Cohen 26 (1988) 143

Raynerd, G., see Venables 26 (1988) 169
Rice, S.B., see Treacy 26 (1988) 133
Rivacoba, A. and P.M. Echenique, Deflection of STEM electrons by dielectric spheres 26 (1988) 389
Rossouw, C.J., D.I. Potter and S.R. Glanvill, Electron channeling analysis of aluminium and xenon-implanted aluminium 26 (1988) 87

See, C.W., see Turner 26 (1988) 337
Shao, Z. and A.V. Crewe, Ideal lenses and the Scherzer theorem: a supplement 26 (1988) 385
Short, K.T., see Treacy 26 (1988) 133
Smyth, J.R. and T.C. McCormick, Earth science applications of ALCHEMI 26 (1988) 77
Spence, J.C.H., Foreword to Electron diffraction and channeling at kilovolt energies 26 (1988) vii
Spence, J.C.H., see Høier 26 (1988) 25
Spence, J.C.H., M. Kuwabara and Y. Kim, Localization effects on quantification in axial and planar ALCHEMI 26 (1988) 103
Steeds, J.W., Zone-axis critical voltages and large-angle electron diffraction at 200–400 kV 26 (1988) 1
Stobbs, W.M., see Boothroyd 26 (1988) 361
Swyt, C.R., see Leapman 26 (1988) 393

Taftø, J. and J. Gjønnes, Microcrystallography using electron channeling: structure factor phase information and crystal site determination 26 (1988) 97
Tanaka, N. and K. Mihama, Nanometer-area electron diffraction of semiconductor superlattices in transmission electron microscopy 26 (1988) 37
Tong, S.Y., see Zhao 26 (1988) 151
Treacy, M.M.J., J.M. Gibson, K.T. Short and S.B. Rice, Channeling effects from impurity atoms in the high-angle annular detector of the STEM 26 (1988) 133
Turner, J.N., D.P. Barnard, G. Matuszek and C.W. See, High-precision tilt stage for the high-voltage electron microscope 26 (1988) 337
Twigg, M.E. and S.N.G. Chu, CBED measurement of lattice mismatch for sub-micron quaternary structures grown on indium phosphide substrates 26 (1988) 51

Uchida, Y., see Lehmpfuhl 26 (1988) 177

Venables, J.A., A.Q.D. Faisal, M. Hamichi, M. Hardiman, R. Kariotis and G. Raynerd, THEED studies of adsorbed xenon on graphite 26 (1988) 169
Versaci, R., see Cabanillas 26 (1988) 335

Wang, Z.L. and P. Lu, Plasmon diffuse scattering in dynamical calculations for RHEED – a method of introducing inelastic scattering in the multislice theory 26 (1988) 217
Wang, Z.L. and J.M. Cowley, REELS and RHEED characterizations of electron resonance channeling in crystal surfaces 26 (1988) 233
Wang, Z.L., Electron multiple inelastic scattering in the geometry of RHEED 26 (1988) 321
Washburn, J., see Liliental-Weber 26 (1988) 59
Weber, E.R., see Liliental-Weber 26 (1988) 59
Wiggins, M.D., see Kestel 26 (1988) 405

Yagi, K., see Ikarashi 26 (1988) 195
Yao, Nan, see Peng 26 (1988) 189

Zhao, T.C. and S.Y. Tong, Dynamical calculation of RHEED rocking curves for Ag(001) and Pt(111) 26 (1988) 151
Zuo, J.-M., see Høier 26 (1988) 25

Ultramicroscopy 26 (1988) 440–442
North-Holland, Amsterdam

SUBJECT INDEX TO VOLUME 26

Analytical microscopy

Zone-axis critical voltages and large-angle electron diffraction at 200–400 kV, *Steeds* 26 (1988) 1
CBED and CBIM from semiconductors and superconductors, *Humphreys, Eaglesham, Maher and Fraser* 26 (1988) 13
Determination of structure factor phase invariants from non-systematic many-beam effects in convergent-beam patterns, *Høier, Zuo, Marthinsen and Spence* 26 (1988) 25
Determination of the symmetry of charge-density-wave modulations in $TaTe_4$ by HREM, *Corbett, Hiltz, Boswell, Bennett and Prodan* 26 (1988) 43
On the use of convergent-beam electron diffraction for identification of antiphase boundaries in GaAs grown on Si, *Lilienthal-Weber, Weber, Parechanian-Allen and Washburn* 26 (1988) 59
Earth science applications of ALCHEMI, *Smyth and McCormick* 26 (1988) 77
Electron channeling analysis of aluminium and xenon-implanted aluminium, *Rossouw, Potter and Glanvill* 26 (1988) 87
Microcrystallography using electron channeling: structure factor phase information and crystal site determination, *Taftø and Gjønnes* 26 (1988) 97
Localization effects on quantification in axial and planar ALCHEMI, *Spence, Kuwabara and Kim* 26 (1988) 103
An efficient analytical method for calculating the angular and energy distribution of electrons which have undergone plural scattering in amorphous materials, *Johnson and Isaacson* 26 (1988) 271
The characterization of structural variations within a crystal field, *Frank, Chiu and Degn* 26 (1988) 345
The contribution of inelastically scattered electrons to high resolution images of (Al,Ga)As/GaAs heterostructures, *Boothroyd and Stobbs* 26 (1988) 361
Numerical evaluation of lattice parameters from high-order Laue zone lines in convergent-beam electron diffraction disks, *De Blasi, Di Giulio and Manno* 26 (1988) 377
Separation of overlapping core edges in electron energy loss spectra by multiple-least-squares fitting, *Leapman and Swyt* 26 (1988) 393

Detectors, photographic and other

Skew thoughts on parallelism, *Christenson and Eades* 26 (1988) 113
Channeling effects from impurity atoms in the high-angle annular detector of the STEM, *Treacy, Gibson, Short and Rice* 26 (1988) 133

Diffraction and optical diffraction

Zone-axis critical voltages and large-angle electron diffraction at 200–400 kV, *Steeds* 26 (1988) 1
CBED and CBIM from semiconductors and superconductors, *Humphreys, Eaglesham, Maher and Fraser* 26 (1988) 13
Determination of structure factor phase invariants from non-systematic many-beam effects in convergent-beam patterns, *Høier, Zuo, Marthinsen and Spence* 26 (1988) 25
Measurement of phase invariants in three-beam diffraction, *Bird and James* 26 (1988) 31
Nanometer-area electron diffraction of semiconductor superlattices in transmission electron microscopy, *Tanaka and Mihama* 26 (1988) 37
CBED measurements of lattice mismatch for sub-micron quaternary structures grown on indium phosphide substrates, *Twigg and Chu* 26 (1988) 51
On the use of convergent-beam electron diffraction for identification of antiphase boundaries in GaAs grown on Si, *Lilienthal-Weber, Weber, Parechanian-Allen and Washburn* 26 (1988) 59
Investigation of amorphous materials by electron diffraction – the effects of multiple scattering, *Anstis, Liu and Lake* 26 (1988) 65
Quantitative comparison of convergent-beam electron diffraction (CBED) patterns, *Fan* 26 (1988) 71
Electron channeling analysis of aluminium and xenon-implanted aluminium, *Rossouw, Potter and Glanvill* 26 (1988) 87
Microcrystallography using electron channeling: structure factor phase information and crystal site determination, *Taftø and Gjønnes* 26 (1988) 97
Dynamical calculation of RHEED rocking curves for Ag(001) and Pt(111), *Zhao and Tong* 26 (1988) 151
Electron diffraction conditions for surface imaging, *Lehmpfuhl and Uchida* 26 (1988) 177

The observation of surface resonance effects in RHEED patterns, *Peng, Cowley and Yao* 26 (1988) 189
Computer-simulated electron microdiffraction patterns from MgO crystal surfaces, *Pan and Cowley* 26 (1988) 205
Plasmon diffuse scattering in dynamical calculations for RHEED – a method of introducing inelastic scattering in the multislice theory, *Wang and Lu* 26 (1988) 217
Diffuse diffraction spots in RHEED patterns, *Peng and Cowley* 26 (1988) 227
REELS and RHEED characterizations of electron resonance channeling in crystal surfaces, *Wang and Cowley* 26 (1988) 233
Delocalization corrections for electron channeling analysis, *Pennycook* 26 (1988) 239
Electron multiple inelastic scattering in the geometry of RHEED, *Wang* 26 (1988) 321
The characterization of structural variations within a crystal field, *Frank, Chiu and Degn* 26 (1988) 345
Numerical evaluation of lattice parameters from high-order Laue zone lines in convergent-beam electron diffraction disks, *De Blasi, Di Giulio and Manno* 26 (1988) 377

Electron energy loss spectroscopy
Electron channeling analysis of aluminium and xenon-implanted aluminium, *Rossouw, Potter and Glanvill* 26 (1988) 87
Microcrystallography using electron channeling: structure factor phase information and crystal site determination, *Taftø and Gjønnes* 26 (1988) 97
Localization effects on quantification in axial and planar ALCHEMI, *Spence, Kuwabara and Kim* 26 (1988) 103
Plasmon diffuse scattering in dynamical calculations for RHEED – a method of introducing inelastic scattering in the multislice theory, *Wang and Lu* 26 (1988) 217
REELS and RHEED characterizations of electron resonance channeling in crystal surfaces, *Wang and Cowley* 26 (1988) 233
Delocalization corrections for electron channeling analysis, *Pennycook* 26 (1988) 239
An efficient analytical method for calculating the angular and energy distribution of electrons which have undergone plural scattering in amorphous materials, *Johnson and Isaacson* 26 (1988) 271
Separation of overlapping core edges in electron energy loss spectra by multiple-least-squares fitting, *Leapman and Swyt* 26 (1988) 393

High resolution
Determination of the symmetry of charge-density-wave modulations in $TaTe_4$ by HREM, *Corbett, Hiltz, Boswell, Bennett and Prodan* 26 (1988) 43
Profile and plan-view imaging of reconstructed surface structures of gold, *Ikarashi, Kobayashi, Koike, Hasegawa and Yagi* 26 (1988) 195
A very simple method for simulating useful high resolution diffraction patterns, *Dorignac and Li* 26 (1988) 249
The contribution of inelastically scattered electrons to high resolution images of (Al,Ga)As/GaAs heterostructures, *Boothroyd and Stobbs* 26 (1988) 361

High voltage
A very simple method for simulating useful high resolution diffraction patterns, *Dorignac and Li* 26 (1988) 249
High-precision tilt stage for the high-voltage electron microscope, *Turner, Barnard, Matuszek and See* 26 (1988) 337

Image processing, 3D reconstruction
The reconstruction of helical particles with variable pitch, *Bluemke, Carragher and Josephs* 26 (1988) 255

Imaging
Contrast transfer theory for non-linear imaging, *Bonevich and marks* 26 (1988) 313
Deflection of STEM electrons by dielectric spheres, *Rivacoba and Echenique* 26 (1988) 389

Instrumentation
Growth and current characteristics of stable protrusions on tungsten field ion emitters, *Jousten, Böhringer, Börret and Kalbitzer* 26 (1988) 301
High-precision tilt stage for the high-voltage electron microscope, *Turner, Barnard, Matuszek and See* 26 (1988) 337
Ideal lenses and the Scherzer theorem: a supplement, *Shao and Crewe* 26 (1988) 385

Methods and techniques
Separation of overlapping core edges in electron energy loss spectra by multiple-least-squares fitting, *Leapman and Swyt* 26 (1988) 393
Electrolyte for jet-thinning martensitic steel containing precipitates, *Kestel and Wiggins* 26 (1988) 405

New developments
THEED studies of adsorbed xenon on graphite, *Venables, Faisal, Hamichi, Hardiman, Kariotis and Raynerd* 26 (1988) 169

Particles optics, theory
Contrast transfer theory for non-linear imaging, *Bonevich and Marks* 26 (1988) 313
Ideal lenses and the Scherzer theorem: a supplement, *Shao and Crewe* 26 (1988) 385

Reflection electron microscopy, high-energy electron diffraction
Determination of surface step distributions on Ge using RHEED, *Cohen and Pukite* 26 (1988) 143
Dynamical calculation of RHEED rocking curves for Ag(001) and (Pt(111), *Zhao and Tong* 26 (1988) 151
Surface resonance effects and beam convergence in REM, *Peng and Cowley* 26 (1988) 161
Electron diffraction conditions for surface imaging, *Lehmpfuhl and Uchida* 26 (1988) 177

Scanning transmission electron microscopy
Channeling effects from impurity atoms in the high-angle annular detector of the STEM, *Treacy, Gibson, Short and Rice* 26 (1988) 133
Deflection of STEM electrons by dielectric spheres, *Rivacoba and Echenique* 26 (1988) 389

Specimen preparation
A preparation technique for TEM cross-sections of test structures with reduced feature size, *Garulli, Armigliato and Finetti* 26 (1988) 295
Preparation of narrow amorphous ribbon specimens for transmission electron microscopy, *Cabanillas and Versaci* 26 (1988) 335

Surfaces, clusters, interfaces and particles
On the use of convergent-beam electron diffraction for identification of antiphase boundaries in GaAs grown on Si, *Lilientai-Weber, Weber, Parechian-Allen and Washburn* 26 (1988) 59
Determination of surface step distribution on Ge using RHEED, *Cohen and Pukite* 26 (1988) 143
Surface resonance effects and beam convergence in REM, *Peng and Cowley* 26 (1988) 161
THEED studies of adsorbed xenon on graphite, *Venables, Faisal, Hamichi, Hardiman, Kariotis and Raynerd* 26 (1988) 169
Electron diffraction conditions for surface imaging, *Lehmpfuhl and Uchida* 26 (1988) 177
Profile and plan-view imaging of reconstructed surface structures of gold, *Ikarashi, Kobayashi, Koike, Hasegawa and Yagi* 26 (1988) 195
Computer-simulated electron microdiffraction patterns from MgO crystal surfaces, *Pan and Cowley* 26 (1988) 205
Deflection of STEM electrons by dielectric spheres, *Rivacoba and Echenique* 26 (1988) 389

Abstracts/Announcements/Reviews/Miscellaneous
Special issues, edited volumes and much else, *Hawkes* 26 (1988) 327
Special announcement 26 (1988) 409
Selected Abstracts from the 40th Annual Meeting of The Scandinavian Society for Electron Microscopy, SCANDEM-88, Aarhus, June 1988 26 (1988) 411
Abstracts of papers presented at the 22nd Scientific Meeting of The Israel Society of Electron Microscopy, Tel-Aviv, June 1988, *Nir, editor* 26 (1988) 423